

Horticulture

HORTICULTURAL TALK.

GRAPE SUPPORTS.—Among the various methods advised for supporting grape vines, there is nothing better or equal to the old style of a stake for each vine, for the inexperienced grower. The trouble with a trellis is that most growers are too greedy. They think they must cover a trellis of three or four wires completely with bearing wood. The result is that the vines soon exhaust themselves to such an extent that the fruit is anything but first class, bunches being small, loose, poorly ripened and insipid. I know of several vineyards that were entirely killed by the dry summer of 1901, they having been weakened to such an extent that they could not stand the pressure. A severe winter would have the same result on such vines. The trellis system has some advantages, to be sure, for the man who knows how and is willing to prune the vines properly. If a trellis is propped up right at the beginning, there is usually not as much repeating to be done afterward as there is to a vineyard of stakes; and then it gives the advantage of room for tying up the young vines for the next year's fruiting. Some claim that on a trellis the vines can be spread out more, and in thus getting more sunshine and a better circulation of air, are not so liable to rot. But this I do not find true. In fact, I have noticed just the reverse. Vines neatly tied up to a stake often form a sort of roof of leaves, protecting the fruit from light showers and dew.

If a vineyard is set that there is a stake, such as osage, black locust, red cedar, catalpa or mulberry, and they are put in at a depth so they will not be heated out by frost, there will be no repeating necessary for a good many years. A vine six or seven feet long will give the root of the average vine plenty to do in maturing the crop to perfection. Then, another great advantage in a staked vineyard, is the saving of labor, by being able to cultivate both ways.

A young vineyard with stakes may be made very profitable by planting between, something like early cabbage, or peppers, that make an upright growth without much spread, in a way that there is a space of four feet between all plants and vines. To be able to do this the vines should be planted 8 by 8 or 8 by 12 feet apart. The vegetables planted between in checks can be cheaply cultivated, and will make the vineyard yield big returns, and at the same time tillage will most likely be better than it would in a trellised vineyard where the use of a hoe will be necessary.

In pruning it is not best to leave the heaviest young cane for fruiting, as a smaller one will give better results. This is particularly true of Moore's Early. It is always best to leave a cane that is always large and does not much larger than a lead pencil and discard the larger vines. A good deal of careful observation is needed in pruning a vineyard of many different varieties, as it is necessary to trim some kinds much different from others. The same is true in the case of the different varieties must be carefully studied before the proper treatment can be given.

DESTROY PRUNINGS.—Some growers will drag dead trees off into nearby hollows and fill ditches with prunings, and thus furnish ideal breeding places for the fruit tree bark-beetle, borers and other injurious insects. One can not be too prompt in burning the prunings, with one exception—that of nursery and young orchards, in which case I would advise that the prunings be left on the ground during winter to feed the rabbits. I have noticed that a rabbit will never turn its head sideways to bite a tree so long as he can get plenty of his favorite food without so doing.

And right here let me again call attention to the importance of grubbing out all wild plum and wild crab trees that may be found growing about the premises. They serve as a harbor for breeding curculio and codling moth. Also take out all other fruit trees which are not worth the expense of spraying and caring for in the best manner. Make it a point to have no tree on the place that cannot be made to produce good, profitable fruit. The man who destroys a tree because inferior fruit does as much or more toward bettering market conditions as the one who plants a good tree. I believe that if it were possible to have nothing but first class fruit go to market, such a thing as a glut or overproduction would be out of the question.

BLACKBERRY CUTTINGS.—Perhaps some of our readers would like to enlarge their blackberry patch, who are not familiar with the ease by which plants are grown from root cuttings, which may be prepared now, providing the ground is not too wet to dig the plants. Good healthy plants should be dug or plowed out, and the roots cut up into pieces about four inches long. Tie these into bunches with wire or willow, pack in boxes of damp moss, sawdust or sand and store in a cool cellar. As soon as ground will work in spring, make furrows about two inches deep, into which place the cuttings, heads up, rather thickly and cover. Cultivate well and the next fall you will have as fine a lot of plants as could be desired. The sucker plants from along the sides of rows are often used for starting a new patch, but these are not so sure to grow and do well as the root cutting plants.

EDWIN H. REHL.
North Alton, Ill., Dec. 23, 1902.

THE LATEST ON GINSENG.

A new publication of 144 pages by Orange Judd & Co. on ginseng culture comes to our desk. It appears to be about the latest thing in this line, and, as the author Mr. M. S. Kalms states, aims to present the facts in the history and culture of this plant, rather than to force upon the public the personal views and opinions of the writer.

The subject of ginseng growing for profit is surrounded with a halo of eager anticipation of immense gains with an outer nimbus of busted hopes. As an Eldorado it is an alluring wisp-of-the-wind. As a straight business proposition, entered into with a full knowledge of both its horticultural requirements and its market status, it will doubtless repay the patience, the perseverance, the long years of waiting and the fostering care which it exacts.

For the would-be grower of ginseng who wishes to arrive safe in port after his

Fruit Trees 17 French, \$1.00, 100 Concord, \$1.00, 1000 Malaga, \$1.00. Immense stock, fine quality. General catalogue sent on \$10.00 orders. Write to: GAGE COUNTY NURSERY, Reister, Neb., No. 905.

long voyage our advice is "don't get excited." Learn all there is to know about ginseng first. Freight your ship with ginseng facts, then embark. Don't set sail with nothing on board but high hopes and a bounding pulse, expecting to pick up a knowledge of the culture and sale of the little five-leafed Panax at the coasting station. If you do you will add one more wreck to the long list of casualties. And this advice will apply to all enterprises, but more particularly to those enticing lead-pencil crops that make Mulberry Sellers of the most staid and sedate of us.

BEN DAVIS DEFENDED.

Editor RURAL WORLD: I see in the columns of your paper that many men are jumping on an old friend of mine, some of them with both feet as if to knock the eternal life out of him. Some, not satisfied with that are calling him names—"abominable, no good for cider, vinegar, sauce, apple butter or to eat." As to eating, he is so handsome from start to finish that many suppose he is prepared to be eaten at any and all times. Like the Kaiser, he gets many "abominables" on that account.

Our people prefer Ben Davis for pies, sauce and apple butter to other varieties; their sauce and butter are on our table most of the time and are relished by all, as well as the family. For cider and vinegar they are not quite so juicy as most other varieties and will not make quite as much, but it's good. Therein lies one of its best claims. When bruised the tendency is to dry in place of rotting and spoiling the whole apple; that fact, its size and handsome appearance make it one of the most profitable for the foreign trade.

The tree is symmetrical in growth and as hardy as an oak, a prolific bearer, commencing young and keeping it up in old age, as if determined (even at the expense of its own life) to supply the children of men with plenty of good and wholesome fruit.

Benjamin has been our right-hand bearer for nearly forty years, helping to build our surroundings, lending a hand to create a surplus to keep the fierce wolf of want from our door in years to come.

One of the writers insinuates that the defenders of Ben Davis have young orchards of that kind. That may be a knock-down argument that I am not prepared to dispute, not being acquainted with all of his many friends. But if he says Benjamin isn't honest and true, I answer perhaps he never cultivated Ben Davis or his intimate acquaintance.

Tonti, Ill. ALLEN COPE.

ILLINOIS HORTICULTURAL SOCIETY.

The Forty-seventh annual meeting of the Illinois State Horticultural Society, held at Chicago on December 17-18-19, will long be remembered for its interesting features by the large number of fruit growers who were present at the sessions. The reports of the officers show that the society is in a good, sound, healthy condition and that it is sailing down another year on the most favorable tide of prosperity.

The opening paper on "Cultivation and Care of the Orchard and the Implements and Machinery to Use," by W. F. Parson, of Centralia, was full of interest and led the way to a profitable discussion. As there were some complaints of bitter-rot last year in Southern Illinois the paper on "Experiments of Spraying for Bitter Rot," by Dr. T. J. Burrill of the State University, was most timely. The discussion of the reports of the officers showed that the society is in a good, sound, healthy condition and that it is sailing down another year on the most favorable tide of prosperity.

The paper on "Pruning and Winter Crop" by Prof. Craig of the Cornell University were among the bright attractions of the occasion. These lectures were illustrated and the pictures presented gave clear ideas of the results of careful observations on these subjects. Prof. Craig laid great stress on the necessity of having proper care of the soil, and the importance of the plant life is necessary for drawing mineral properties and nitrogen and other elements which enhance the fertility of the soil. Where orchards are not cultivated he recommended grass and clover, but under no circumstances should the grass be taken away after it was cut; it should be left for a mulch. V. Schermerhorn of Kilmory told of "Practical Results of Spraying" and Dr. S. A. Forbes, state entomologist, had a most helpful paper on the "San Jose and Other Scale Insects." Dr. Forbes announced that he finally had reached a solution of the problem of disposing of the San Jose scale. He used a mixture during the past year which has been very successful in ridding orchards of this pest. The insecticide which has made this possible is a mixture of lime and sulphur, known as the California wash when combined with salt, and as the Oregon wash when combined with blue kerosene. These are the insecticides which have been used for a long time as the main reliance against the San Jose scale in the Pacific states, but their introduction in our part of the country was delayed for many years, largely in consequence of a report of experiments tried in the States, which showed that they were not to be practically of use in our climate.

H. L. Doan of Jacksonville read a paper on "The Peach; Cultivation and Pruning." Mr. Doan has a large peach orchard and all of his instructions came from observation and practical experience. "Controlling the Second Brood of Codling Moth" was the subject of a very interesting paper by Prof. John W. Lloyd of the State University. He has kept careful notes of his experience in this matter, and has been successful in the past two years. He has concluded that arsenate of lead is preferable in making a spraying mixture for this insect than Paris Green. Where lead has been used a smaller percentage of fruit fell before it was ripe and a smaller percentage of the hand-picked fruit was visibly attacked by codling moth larvae.

Mrs. E. B. Freeman presented the claims of "Wild Flowers for Home Decoration" in a most attractive manner, and Prof. O. C. Simonds of Chicago interested the audience with an illustrated lecture on "Parks and Public Grounds for Villages and Small Towns." Frederick Cranfield of the University of Wisconsin spoke on "Native Plums," and Prof. J. C. Blair of the State University read a paper on "Results from Cool and Cold Storage Experiments."

All of the papers were followed by earnest discussions, from which were evolved many new and practical ideas.

The exhibition of apples was exceptionally fine and many of the choice specimens were placed in cold storage to be preserved for use at the World's Fair in St. Louis. The convention will meet in Champaign next year. Quincy, Ill. JAMES HANDLY.

FROM CALHOUN CO., ILL.

Editor RURAL WORLD: This is one of the best counties in the State of Illinois for apple growing. Such a reputation has our county obtained for the high quality of its apples that buyers come here from the East to buy our fruit before picking time begins. Calhoun county apples took the first premium at the World's Fair at Chicago. Some time I will send you some notes about our orchards and orchard production, and the varieties we cultivate, hoping it may interest some of your readers. Calhoun Co., Ill. J. C. BELL.

THE GOOD OZARK BEN DAVIS.

Editor RURAL WORLD: I see much is now being said against good old Ben Davis. It may be that much is true for Eastern grown or Northern grown Ben Davis, but when you take Southern grown or Missouri grown or Ozark grown Ben Davis the accusation is not true. Well grown, picked at the proper time, and kept properly, the Missouri Ben Davis is a good apple, declares L. A. Goodman in "Practical Fruit Growing." It is the best apple to cook, to evaporate, to keep, to ship, and while not equal to Jonathan by any means, it is really a good apple to eat if above conditions have been met. We find it giving us apples when all others fail, as it did last year; we find it in demand when we have no other friend to call upon. The great trouble has been that it is also grown where it is of very poor quality and should never have been planted, and its reputation has had to suffer in consequence.

The fact that Ben Davis is not wanted as much as usual is no argument against good Ben Davis. I have seen the time in Michigan when Baldwin was not wanted also, but no one would touch it on that ground. I have seen the time here in Missouri when Winesap and Janet were not wanted by the buyers, and yet we all know them to be good apples. Too many jump at conclusions and say all Ben Davis are alike and then condemn all alike, when if they only looked into the matter closely they would buy varieties grown where they are adapted to the soil, location and climate and there would be no complaint to offer. We have only to cite the utter failure of some of the Eastern and Northern varieties grown here in Missouri. For instance, there is no comparison in the quality of apples grown in the North and in Missouri, those of the North being far superior in quality to those grown in the South. I have tasted over and over again the Ben Davis grown in Michigan and Wisconsin with those grown in Missouri and the difference was so palpable that no one would have called them the same by the taste alone, but the Missouri grown was far superior in quality to those grown North that they could be called a good apple.

Buyers this year are shunning the Ben Davis because of the indiscriminate use of those grown in the North. But even this was not an unmixed evil for that year, because there were none other to be had, but the evil effects came this year, because all kinds of Ben Davis were put upon the market. The Ben Davis is too profitable an apple, too good a bearer, too good an evaporator or make into apple butter or jelly, too large and handsome, too good a shipper, too good for cold storage, too good a keeper, too good to cook, and, where-withal, to good to eat, to be lightly thrown aside because a few buyers have blundered in their judgment of what, when and where to buy.

Kansas City, Mo. L. A. GOODMAN.

AN APPLE HOUSE.

H. E. Vandeman, in the "Rural New Yorker," says: "The main principle in constructing an apple house, or a house to keep any other kind of fruit, is to make the walls and ceiling perfectly tight and with spaces of dead air between the enclosures. Still air is the poorest conductor of heat known. In a fruit house we want to keep the heat out, and at times to keep it in. An even and moderate low temperature is what is wanted. There should be more than one dead air space. I would put in double walls, but endeavor to make the linings as near airtight as possible. The best building paper should be used between the boards, and if these are matched they will be the better for it. I would

Professor F. H. King of the University of Wisconsin advises orchardists to plow their orchards and small fruit plantations late in fall, after the wood has ripened, and in the spring the soil will be better conserved. He says: "Late fall plowing and deep cultivation in orchards of fruit trees and in vineyards of small fruits, after the wood is fully matured and growth arrested by the cold weather will do very much toward the next spring's fruiting. It will cure such results as are cited above. In cases where injury from deep freezing is liable to occur the late plowing will lessen this danger because the loose soil blanket will help to retain the heat in the ground as well as the soil moisture."

Brides

Are always "beautiful" and always "happy" according to the society reporters, and in this case the report is mostly true. There may be unhappy brides in fiction, but there are few in real life. But how hard it is to look upon many of the wives we know and believe that they were once beautiful and happy. Pain, the result of womanly disease, has marred beauty and undermined happiness. Beauty and happiness are both restored to the sufferers from womanly diseases by the use of Dr. Pierce's Favorite Prescription. It cures the pain-producing irregularity, drying weakening drains, healing inflammation and ulceration, and curing female weakness. It restores roundness to the sunken cheeks and plumpness to the shrunken body.

"I have thought for some time I would write you and tell you of the great improvement in my health since taking your 'Favorite Prescription,'" says Mrs. H. S. Jones, of Forest, N. C. "When I began to use it was a physical wreck and had despaired of ever being happy again. Could not sit up all day, and was so weak I could not walk one quarter of a mile. I noted a great improvement in my health before the first bottle was used. Was suffering with almost every pain that a woman is subject to, had inflammation of ovaries, painful suppressed periods, and other symptoms of female weakness. After taking six bottles of 'Favorite Prescription,' I felt like a new person. Can ride horseback and take all kinds of exercise and do not feel tired."

If you are led to the purchase of "Favorite Prescription" because of its remarkable cures of other women, do not accept a substitute which has none of these cures to its credit. If you are looking for a perfect laxative try Dr. Pierce's Pleasant Pellets.

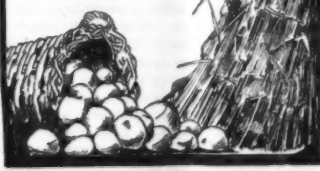
A Golden Rule of Agriculture:

Be good to your land and your crop will be good. Plenty of

Potash

in the fertilizer spells quality and quantity in the harvest. Write us and we will send you, free, by next mail, our money winning books.

GERMAN KALI WORKS,
93 Nassau Street,
New York.



have at least two air spaces of about four inches each, in the main walls and overhead. Horizontal pieces should be used that will prevent any circulation of air over the roof, as well as sideways. On one side of this part of the building I would make another air space, reaching from within a few inches of the ground to the peak of the roof. I once saw a fruit house with this latter air space, that was the best one ever examined, aside from some of the costly cold storage houses. The idea is to have a draft of air passing through this outer space, constantly, when the sun warms the roof and the air just under it to a higher degree than that next the ground. There must be an escape or vent at the top of the roof for the warm air to pass through.

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JONATHANS IN ENGLAND.

The finest car of apples ever sent out of Atchison, Kan., was recently shipped by the Farmers' Seed Co. to Liverpool, Eng., says the Atchison "Globe." They were Jonathans, 189 barrels selected from 1200 barrels, and every apple polished and wrapped in oiled tissue paper. Every apple was perfect and when the English people see this Kansas product there ought to be an exodus from that country to this vicinity. The company gets \$6 a barrel for the apples on board car at Atchison and could probably have gotten more for another car. Before the apples were packed and when the English people see this Kansas product there ought to be an exodus from that country to this vicinity. The company gets \$6 a barrel for the apples on board car at Atchison and could probably have gotten more for another car. Before the apples were packed and when the English people see this Kansas product there ought to be an exodus from that country to this vicinity. 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